

Comparisons of Job Characteristics

Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)
Associated Occupation: Food Scientists and Technologists (19-1012)

Compare Knowledge
 Compare Skills
 Compare Abilities
 Compare Detailed Work Activities
 Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 37

Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)
Associated Occupation: Food Scientists and Technologists (19-1012)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Chemistry	4.8	19.8	5.0	<<	Extensive education and/or training may be required
Production and Processing	6.0	18.6	17.4	0	Current knowledge level may be sufficient
Biology	3.7	16.8	1.7	<<	Extensive education and/or training may be required
Food Production	2.1	15.9	1.3	<<	Extensive education and/or training may be required
Mathematics	9.2	14.5	10.6	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	13.9	8.3	<<	Extensive education and/or training may be required
Physics	4.3	13.1	3.6	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 80

Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)
Associated Occupation: Food Scientists and Technologists (19-1012)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Writing	9.2	13.2	10.3	<<	Extensive development of skills in this area may be required
Active Learning	8.7	12.5	8.9	<<	Extensive development of skills in this area may be required
Complex Problem Solving	9.1	12.3	10.7	<	A higher skill level may be required
Monitoring	9.9	12.3	10.6	<	A higher skill level may be required

Quality Control Analysis	5.9	10.5	8.2	<	A higher skill level may be required
Systems Analysis	6.5	10.5	8.5	<	A higher skill level may be required
Negotiation	6.8	9.7	9.8	0	Current skill level may be sufficient
Systems Evaluation	6.4	9.7	8.3	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 92			
Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011) Associated Occupation: Food Scientists and Technologists (19-1012)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Inductive Reasoning	10.2	14.5	10.7	<<	Extensive improvement in abilities may be required
Written Comprehension	11.0	14.5	12.2	<	Some improvement in abilities may be required
Problem Sensitivity	11.1	13.9	12.1	<	Some improvement in abilities may be required
Category Flexibility	9.0	13.5	8.8	<<	Extensive improvement in abilities may be required
Deductive Reasoning	10.6	13.5	11.4	<	Some improvement in abilities may be required
Written Expression	9.8	13.3	11.0	<	Some improvement in abilities may be required
Originality	7.6	11.1	9.7	<	Some improvement in abilities may be required
Fluency of Ideas	7.6	11.0	9.1	<	Some improvement in abilities may be required
Number Facility	6.3	11.0	6.2	<<	Extensive improvement in abilities may be required
Mathematical Reasoning	6.3	10.8	7.1	<<	Extensive improvement in abilities may be required
Time Sharing	6.6	8.5	7.1	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 55
Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011) Associated Occupation: Food Scientists and Technologists (19-1012)		
Work Activities	Exclusivity of Activity	
Communicate technical information	4	
Maintain records, reports, or files	5	

Prepare reports	8
Recommend improvements to work methods or procedures	64

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

**Similarity of Focus
Occupation to Associated
Occupation: 48**

Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)
Associated Occupation: Food Scientists and Technologists (19-1012)

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Data management and query software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.